WHAT IS CLAIMED IS:

1. A method for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image comprising the steps of:

a region deciding step of deciding a color signal value extracting region for each color region of said color chart image;

an extracting step of calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a displaying step of displaying said color signal value extracting region along with said color chart image on a display unit; and

a determining step of determining correctness of said representative color signal value on the basis of said color signal value extracting region and said color chart image which are displayed on said display unit.

2. A method for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image comprising the steps of:

a region deciding step of deciding a color

signal value extracting region of each color region of said color chart image;

an extracting step of calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculating step of calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region; and

a determining step of determining correctness of said representative color signal value on the basis of said characteristic value.

3. A method for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image comprising the steps of:

a region deciding step of deciding a color signal value extracting region for each color region of said color chart image;

an extracting step of calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculating step of

calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region;

a displaying step of displaying said color signal value extracting region along with said color chart image on a display unit; and

a determining step of determining correctness of said representative color signal value on the basis of said color signal value extracting region and said color chart image which are displayed on said display unit, and said characteristic value.

4. The color signal value extracting method according to claim 3 further comprising a coordinate designating step of designating coordinates of said color chart image before said region deciding step;

wherein, at said region deciding step, said color signal value extracting region is decided on the basis of said coordinates designated at said coordinate designating step.

5. An apparatus for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image comprising:

a display unit for displaying various

information;

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same; and

a display control unit for making said display unit display said color signal value extracting region along with said color chart image.

6. An apparatus for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image comprising:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculation unit for calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in

said color signal value extracting region; and

a determination unit for determining correctness of said representative color signal value on the basis of said characteristic value.

7. An apparatus for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image comprising:

a display unit for displaying various information;

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculation unit for calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region;

a display control unit for making said display unit display said color signal value extracting region along with said color chart image; and

a determination unit for determining

correctness of said representative color signal value on the basis of said characteristic value.

8. A computer readable record medium storing a color signal value extracting program for realizing a function of extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image by a computer;

said color signal value extracting program making said computer function as:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same; and

a display control unit for making a display unit display said color signal value extracting region along with said color chart image.

9. A computer readable record medium storing a color signal value extracting program for making a computer realize a function of extracting at least one representative color signal value representing each color region from each of a plurality of color regions

in a color chart image;

said color signal value extracting program making said computer function as:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value extraction unit for calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region; and

a determination unit for determining correctness of said representative color signal value on the basis of said characteristic value.

10. A computer readable record medium storing a color signal value extracting program to make a computer realize a function of extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image;

said color signal value extracting program making said computer function as:

a region decision unit for deciding a color signal value extracting region for each color region in said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculation unit for calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region;

a display control unit for making a display unit display said color signal value extracting region along with said color chart image; and

a determination unit for determining correctness of said representative color signal value on the basis of said characteristic value.

11. A method for creating a color transformation table for a color input device comprising the steps of:

a color chart reading step of reading a predetermined color chart by said color input device;

a color signal value extracting step of extracting at least one representative color signal representing each color region from each of a plurality of color regions in a color chart image read at said

color chart reading step;

a colorimetric step of measuring a color in each of a plurality of color regions in said predetermined color chart; and

a color transformation table creating step of correlating said representative color signal value extracted at said color signal value extracting step with at least one colorimetric value measured at said colorimetric step in each color region to create said color transformation table for said color input device;

said color signal value extracting step comprising:

a region deciding step of deciding a color signal value extracting region for each color region of said color chart image;

an extracting step of calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a displaying step of making a display unit display said color signal value extracting region along with said color chart image; and

a determining step of determining correctness of said representative color signal value on the basis of said color signal value extracting region and said color chart image which are displayed on said display unit.

12. A method for creating a color transformation table for a color input device comprising the steps of:

a color chart reading step of reading a predetermined color chart by said color input device;

a color signal value extracting step of extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image read at said color chart reading step;

a colorimetric step of measuring a color in each of a plurality of color regions in said predetermined color chart; and

a color transformation table creating step of correlating said representative color signal value extracted at said color signal value extracting step with at least one colorimetric value measured at said colorimetric step in each color region to create said color transformation table for said color input device;

said color signal value extracting step comprising:

a region deciding step of deciding a color signal value extracting region for each color region of said color chart image;

an extracting step of calculating said representative color signal value of said color region on the basis of color signal values in said color signal

value extracting region and extracting the same;

a characteristic value calculating step of calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region; and

a determining step of determining correctness of said representative color signal value on the basis of said characteristic value.

13. A method for creating a color transformation table for a color input device comprising the steps of:

a color chart reading step of reading a predetermined color chart by said color input device;

a color signal value extracting step of extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image read at said color chart reading step;

a colorimetric step of measuring a color in each of a plurality of color regions in said predetermined color chart; and

a color transformation table creating step of correlating said representative color signal value extracted at said color signal value extracting step with at least one colorimetric value measured at said colorimetric step in each color region to create said

color transformation table for said color input device;

said color signal value extracting step comprising:

a region deciding step of deciding a color signal value extracting region for each color region in said color chart image;

an extracting step of calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculating step of calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region;

a displaying step of making a display unit display said color signal value extracting region along with said color chart image; and

a determining step of determining correctness of said representative color signal value on the basis of said color signal value extracting region and said color chart image which are displayed on said display unit, and said characteristic value.

14. An apparatus for creating a color transformation table for a color input device comprising:

a display unit for displaying various

information;

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image obtained by reading a predetermined color chart by said color input device;

a colorimeter for measuring a color of each of a plurality of color regions in said predetermined color chart; and

a color transformation table creation unit for correlating said representative color signal value extracted by said color signal value extraction unit with at least one colorimetric value measured by said colorimeter in each color region to create said color transformation table for said color input device;

said color signal value extraction unit comprising:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same; and

a display control unit for making said

display unit display said color signal value extracting region along with said color chart image.

15. An apparatus for creating a color transformation table for a color input device comprising:

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image obtained by reading a predetermined color chart by said color input device;

a colorimeter for measuring a color in each of a plurality of color regions in said predetermined color chart; and

a color transformation table creation unit for correlating said representative color signal value extracted by said color signal value extraction unit with at least one colorimetric value measured by said colorimeter in each color region to create said color transformation table for said color input device;

said color signal value extraction unit comprising:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value in said color

region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculation unit for calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region; and

a determination unit for determining correctness of said representative color signal value on the basis of said characteristic value.

16. An apparatus for creating a color transformation table for a color input device comprising:

a display unit for displaying various information;

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image obtained by reading a predetermined color chart by said color input device;

a colorimeter for measuring a color of each of a plurality of color regions in said predetermined color chart; and

a color transformation table creation unit for correlating said representative color signal value extracted by said color signal value extraction unit

with at least one colorimetric value measured by said colorimeter in each color region to create said color transformation table for said color input device;

said color signal value extraction unit comprising:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculation unit for calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region;

a display control unit for making said display unit display said color signal value extracting region along with said color chart image; and

a determination unit for determining correctness of said representative color signal value on the basis of said characteristic value.

17. A computer readable record medium in which a color transformation table creating program for making a computer realize a function of creating a color

transformation table for a color input device is recorded;

said color transformation table creating program making said computer function as:

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image obtained by reading a predetermined color chart by said color input device; and

a color transformation table creation unit for correlating at least one colorimetric value of each of a plurality of color regions in said predetermined color chart with said representative color signal value extracted by said color signal value extraction unit in each color region to create said color transformation table for said color input device;

when said computer is made function as said color signal value extraction unit, said color transformation table creating program making said computer function as:

a region decision unit for deciding a color signal extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color

signal value extracting region and extracting the same; and

a display control unit for making a display unit display said color signal value extracting region along with said color chart image.

18. A computer readable record medium in which a color transformation table creating program for making a computer realize a function of creating a color transformation table for a color input device is recorded;

said color transformation table creating program making said computer function as:

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image obtained by reading a predetermined color chart by said color input device; and

a color transformation table creation unit for correlating at least one colorimetric value of each of a plurality of color regions in said predetermined color chart with said representative color signal value extracted by said color signal value extraction unit in each color region to create said color transformation table for said color input device;

when said computer is made function as said

color signal value extraction unit, said color transformation table creating program making said computer function as:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculation unit for calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region; and

a determination unit for determining correctness of said representative color signal value on the basis of said characteristic value.

19. A computer readable record medium in which a color transformation table creating program for making a computer realize a function of creating a color transformation table for a color input device is recorded;

said color transformation table creating program making said computer function as:

a color signal value extraction unit

for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image obtained by reading a predetermined color chart by said color input device; and

a color transformation table creation unit for correlating at least one colorimetric value of each of a plurality of color regions in said predetermined color chart with said representative color signal value extracted by said color signal value extraction unit in each color region to create said color transformation table for said color input device;

when said computer is made function as said color signal value extraction unit, said color transformation table creating program making said computer function as:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculation unit for calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values

in said color signal value extracting region;

a display control unit for making a display unit display said color signal value extracting region along with said color chart image; and

a determination unit for determining correctness of said representative color signal value on the basis of said characteristic value.

20. A method for creating a color transformation table for a color output device comprising the steps of:

a color chart outputting step of giving predetermined color signal values to said color output device to make said color output device output a predetermined color chart;

a color chart reading step of reading said predetermined color chart by a color input device;

a color transforming step of transforming a color chart image read at said color chart reading step into an image expressed in a device-independent color space on the basis of a color transformation table for said color input device;

a color signal value extracting step of extracting at least one representative color signal value representing each color region from each of a plurality of color regions in said color chart image transformed at said color transforming step; and

a color transformation table creating step of

correlating said predetermined color signal value given to said color output device at said color chart outputting step with said representative color signal value extracted at said color signal value extracting step in each color region to create said color transformation table for said color output device.

21. A method for creating a color transformation table for a color output device comprising the steps of:

a color chart outputting step of giving predetermined color signal values to said color output device to make said color output device output a predetermined color chart;

a color chart reading step of reading said predetermined color chart by a color input device;

a color signal value extracting step of extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image read at said color chart reading step;

a color transforming step of transforming said representative color signal value extracted at said color signal value extracting step into at least one color signal value expressed in a device-independent color space on the basis of a color transformation table for said color input device; and

a color transformation table creating step of

correlating said predetermined color signal value given to said color output device at said color chart outputting step with said representative color signal value transformed at said color transforming step in each color region to create said color transformation table for said color output device.

22. An apparatus for creating a color transformation table for a color output device comprising:

a color signal value giving unit for giving predetermined color signal values to said color output device in order to make said color output device output a predetermined color chart;

a color input device for reading said predetermined color chart outputted from said color output device;

a color transformation unit for transforming a color chart image read by said color input device into an image expressed in a device-independent color space on the basis of a color transformation table for said color input device;

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in said color chart image transformed by said color transformation unit; and

a color transformation table creation unit for

correlating said predetermined color signal value given to said color output device with said representative color signal value extracted by said color signal value extraction unit in each color region to create said color transformation table for said color output device.

23. An apparatus for creating a color transformation table for a color output device comprising:

a color signal value giving unit for giving predetermined color signal values to said color output device in order to make said color output device output a predetermined color chart;

a color input device for reading said predetermined color chart outputted from said color output device;

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image read by said color input device;

a color transformation unit for transforming said representative color signal value extracted by said color signal value extraction unit into at least one color signal value expressed in a device-independent color space on the basis of a color transformation table for said color input device; and

a color transformation table creation unit for correlating said predetermined color signal value given to said color output device with said representative color signal value transformed by said color transformation unit in each color region to create said color transformation table for said color output device.

24. A computer readable record medium in which a color transformation table creating program for making a computer realize a function of creating a color transformation table for a color output device is recorded;

said color transformation table creating program making said computer function as:

a color signal value giving unit for giving predetermined color signal values to said color output device in order to make said color output device output a predetermined color chart;

a color transformation unit for transforming a color chart image obtained by reading said predetermined color chart, which is outputted from said color output device, by said color input device into an image expressed in a device-independent color space on the basis of a color transformation table for said color input device;

a color signal value extraction unit

for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in said color chart image transformed by said color transformation unit; and

a color transformation table creation unit for correlating said predetermined color signal value given to said color output device with said representative color signal value extracted by said color signal value extraction unit in each color region to create said color transformation table for said color output device.

25. A computer readable record medium in which a color transformation table creating program for making a computer realize a function of creating a color transformation table for a color output device is recorded;

said color transformation table creating program making said computer function as:

a color signal value giving unit for giving predetermined color signal values to said color output device in order to make said color output device output a predetermined color chart;

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions in a color chart image

obtained by reading said predetermined color chart, which is outputted from said color output device, by said color input device;

a color transformation unit for transforming said representative color signal value extracted by said color signal value extraction unit into at least one color signal value expressed in a device-independent color space on the basis of a color transformation table for said color input device; and

a color transformation table creation unit for correlating said predetermined color signal value given to said color output device with said representative color signal value transformed by said color transformation unit in each color region to create said color transformation table for said color output device.

26. A method for checking gradation maintainability of a color input device comprising the steps of:

a color chart reading step of reading a predetermined color chart by said color input device;

a color signal value extracting step of extracting at least one representative color signal value representing each color region from each of a plurality of color regions configuring gradations in a color chart image read at said color chart reading step; and

a checking step for checking gradation maintainability of said color input device on the basis of said representative color signal value extracted at said color signal value extracting step;

said color signal value extracting step comprising:

a region deciding step of deciding a color signal value extracting region for each color region of said color chart image;

an extracting step of calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a displaying step of making a display unit display said color signal value extracting region along with said color chart image; and

a determining step of determining correctness of said representative color signal value on the basis of said color signal value extracting region and said color chart image which are displayed on said display unit.

27. A method for checking gradation maintainability of a color input device comprising the steps of:

a color chart reading step of reading a predetermined color chart by said color input device;

a color signal value extracting step of

extracting at least one representative color signal value representing each color region from each of a plurality of color regions configuring gradations in a color chart image read at said color chart reading step; and

a checking step of checking gradation maintainability of said color input device on the basis of said representative color signal value extracted at said color signal value extracting step;

said color signal value extracting step comprising:

a region deciding step of deciding a color signal value extracting region for each color region of said color chart image;

an extracting step of calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculating step of calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region; and

a determining step of determining correctness of said representative color signal value on the basis of said characteristic value.

28. A method for checking gradation maintainability of a color input device comprising the steps of:

a color chart reading step of reading a predetermined color chart by said color input device;

a color signal value extracting step of extracting at least one representative color signal value representing each color region from each of a plurality of color regions configuring gradations in a color chart image read at said color chart reading step; and

a checking step of checking gradation maintainability of said color input device on the basis of said representative color signal value extracted at said color signal value extracting step;

said color signal value extracting step comprising:

a region deciding step of deciding a color signal value extracting region for each color region of said color chart image;

an extracting step of calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculating step of calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values

in said color signal value extracting region;

a displaying step of making a display unit display said color signal value extracting region along with said color chart image; and

a determining step of determining correctness of said representative color signal value on the basis of said color signal value extracting region and said color chart image which are displayed on said display unit, and said characteristic value.

29. An apparatus for checking gradation maintainability of a color input device comprising:

a display unit for displaying various information;

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions configuring gradations in a color chart image obtained by reading a predetermined color chart by said color input device; and

a check unit for checking gradation maintainability of said color input device on the basis of said representative color signal value extracted by said color signal value extraction unit;

said color signal value extraction unit comprising:

a region decision unit for deciding

a color signal value extracting region for each color region in said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same; and

a display control unit for making said display unit display said color signal value extraction region along with said color chart image.

30. An apparatus for checking gradation maintainability of a color input device comprising:

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions configuring gradation in a color chart image obtained by reading a predetermined color chart by said color input device; and

a check unit for checking gradation maintainability of said color input device on the basis of said representative color signal value extracted by said color signal value extraction unit;

said color signal value extraction unit comprising:

a region decision unit for deciding a color signal value extracting region for each color

region of said color chart image;

an extraction unit for extracting said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculation unit for calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region; and

a determination unit for determining correctness of said representative color signal value on the basis of said characteristic value.

31. An apparatus for checking gradation maintainability of a color input device comprising:

a display unit for displaying various information;

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions configuring gradations in a color chart image obtained by reading a predetermined color chart by said color input device; and

a check unit for checking gradation maintainability of said color input device on the basis of said representative color signal value extracted

by said color signal value extraction unit;

said color signal value extraction unit comprising:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculation unit for calculating at least one characteristic value for determining correctness of said representative color signal value, on the basis of color signal values in said color signal value extracting region;

a display control unit for making said display unit display said color signal value extracting region along with said color chart image; and

a determination unit for determining correctness of said representative color signal value on the basis of said characteristic value.

32. A computer readable record medium in which a gradation maintainability checking program for making a computer realize a function of checking gradation maintainability of a color input device is recorded;

said gradation maintainability checking

program making said computer function as:

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions configuring gradations in a color chart image obtained by reading a predetermined color chart by said color input device; and

a check unit for checking gradation maintainability of said color input device on the basis of said representative color signal value extracted by said color signal value extraction unit;

when said computer is made function as said color signal value extraction unit, said gradation maintainability checking program making said computer function as:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same; and

a display control unit for making a display unit display said color signal value extracting region along with said color chart image.

33. A computer readable record medium in which a gradation maintainability checking program for making a computer realize a function of checking gradation maintainability of a color input device is recorded;

said gradation maintainability checking program making said computer function as:

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions configuring gradations in a color chart image obtained by reading a predetermined color chart by said color input device; and

a check unit for checking gradation maintainability of said color input device on the basis of said representative color signal value extracted by said color signal value extraction unit;

when said computer is made function as said color signal value extraction unit, said gradation maintainability checking program making said computer function as:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculation unit for calculating at least one characteristic value for determining correctness of said representative color signal values, on the basis of color signal values in said color signal value extracting region; and

a determination unit for determining correctness of said representative color signal value on the basis of said characteristic value.

34. A computer readable record medium in which a gradation maintainability checking program for making a computer realize a function of checking gradation maintainability of a color input device is recorded;

said gradation maintainability checking program making said computer function as:

a color signal value extraction unit for extracting at least one representative color signal value representing each color region from each of a plurality of color regions configuring gradations in a color chart image obtained by reading a predetermined color chart by said color input device; and

a check unit for checking gradation maintainability of said color input device on the basis of said representative color signal value extracted by said color signal value extraction unit;

when said computer is made function as said color signal value extraction unit, said gradation

maintainability checking program making said computer function as:

a region decision unit for deciding a color signal value extracting region for each color region of said color chart image;

an extraction unit for calculating said representative color signal value of said color region on the basis of color signal values in said color signal value extracting region and extracting the same;

a characteristic value calculation unit for calculating at least one characteristic value for determining correctness of said representative color signal values, on the basis of color signal values in said color signal value extracting region;

a display control unit for making a display unit display said color signal value extracting region along with said color chart image; and

a determination unit for determining correctness of said representative color signal value on the basis of said characteristic value.